

U.S. DEPARTMENT OF LABC
Occupational Safety and Health Administration

JAN 15 1982

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

DPM 678

RE-ISSUE
9/8/77

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME E. F. Houghton & Company		EMERGENCY TELEPHONE NO. 215-RE-97100
ADDRESS (Number, Street, City, State, and ZIP Code) 303 W. Lehigh Ave. Phila., Pa. 19133		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Cosmoline 1104
CHEMICAL FAMILY N/A	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS Stoddard	55	500	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES		ppm- AIR.	OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)		SPECIFIC GRAVITY (H ₂ O=1)	.87
VAPOR PRESSURE (mm Hg.)		PERCENT VOLATILE BY VOLUME (%)	55
VAPOR DENSITY (AIR=1)		EVAPORATION RATE Butyl Acetate	Greater
SOLUBILITY IN WATER Moderate			
APPEARANCE AND ODOR Dark thin liquid, Petroleum solvent odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) 105°F P. M. C. C.	FLAMMABLE LIMITS Fire Point 110°F	Lel	Uel
EXTINGUISHING MEDIA CO₂, Foam, Dry Chemical			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

SECTION V - HEALTH HAZARD		TA
THRESHOLD LIMIT VALUE	200 P. P. M.-AIR for the Solvent	
EFFECTS OF OVEREXPOSURE	Dizziness, Nausea	
EMERGENCY AND FIRST AID PROCEDURES		
Inhalation-Remove to fresh air, administer oxygen if necessary.		
Eye Contact-Wash with water for 15 minutes, Consult a Physician		
Ingestion- Consult physician, DO NOT give an emetk..		

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATABILITY (Materials to avoid) Strong Oxidizers			
HAZARDOUS DECOMPOSITION PRODUCTS Oxides of Nitrogen.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Clean up with dry absorbent material Provide ventilation. Keep sources of heat, sparks and open flames away from area.	
WASTE DISPOSAL METHOD Follow local regulations for waste petroleum solvents and oils.	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type) N/A		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES		EYE PROTECTION
		Goggles
OTHER PROTECTIVE EQUIPMENT		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
DO NOT store near sources of heat.	
Keep container tightly closed when not in use.	
OTHER PRECAUTIONS	
Avoid contact with Strong Oxidizers.	

COSMOLINE 1104

Meets Specification MIL-C-15074C

Corrosion Preventive; Fingerprint Remover

Cosmoline 1104 is a blend of highly refined mineral oil and solvent compounds. It contains additives for fingerprint removing and neutralizing properties, as well as a high degree of corrosion protection. Cosmoline 1104 meets requirements of the latest revision of the Fingerprint Remover Specification, MIL-C-15074C.

Cosmoline 1104 (1) suppresses, neutralizes and removes fingerprints; (2) affords protection against rust under high humidity conditions; (3) is non-corrosive when applied to bi-metallic systems.

Characteristics and General Properties of Cosmoline 1104

Specification MIL-C-15074C

Test	Specification Requirements	Typical Results
Odor	Not offensive, not disagreeable	Passes
Toxicity	Not injurious to personnel employing reasonable safety precautions	Satisfactory
Flash Point, Tag Closed Cup	100°F., Minimum	102°F.
Kinematic Vis. at 100°F.	30 cs., Maximum	5.5 cs. (44 S.U.S.)
Stability (a) 3 days at 130°F.	Must not separate	Passes
(b) cycle test, 3 days, 8 hrs. at 130°F., 16 hrs. at -40°F.	Must not separate	Passes
Fingerprint Removal	Must pass	Passes
Fingerprint Suppression	Must pass	Passes
Humidity Protection at 120°F.	7 days, Minimum	Passes
Film Stability	Must pass	Passes
Handling Test	Must pass	Passes
Removability	Film must be removed with PS-661 solvent	Removable

Test	Specification Requirements	Typical Results
Corrosion Test on Metals, 7 day immersion at 130°F.	No weight loss in excess of amounts specified	
Aluminum	0.2 mg./sq. cm.	-0.01
Brass	2.0 " " "	-0.50
Lead	22.3 " " "	-10.00
Steel	0.2 " " "	+0.15
Zinc	8.5 " " "	-2.25
Type Film	*	Clear, oily
Film Thickness (Dip)	*	0.0003 in.
Coverage per gal.	*	1800 sq. ft.
3 Hour Copper Corrosion at 212°F.	*	Negative

*These tests are not included in the specification.

Application

Cosmoline 1104 may be applied by spray, dip or brush.

How to Remove

Cosmoline 1104 can be removed with petroleum solvents such as naphtha, Stoddard Solvent, kerosene, etc.

Uses

Cosmoline 1104 is intended for use as a fingerprint remover, suppressor and neutralizer.

It is not intended to be used as a final protective coating. The film should be completely removed and a subsequent permanent coating applied.

E. F. Houghton & Co., 303 W. Lehigh Ave., Philadelphia, Pa. 19133. Other plants: Carrollton, Ga., Chicago, Detroit, Manchester, Conn., So. San Francisco, Toronto, Canada. Sales offices in principal cities.

**The
HOUGHTON
Line**

CAUTION!
COMBUSTIBLE LIQUID
VAPOR HARMFUL
MAY IRRITATE SKIN AND EYES
HARMFUL IF SWALLOWED

Keep away from light, heat, sparks and open flame. Use with adequate ventilation. Avoid prolonged or repeated breathing of vapor. Avoid contact with eyes or skin. Do not take internally.

If overcome from inhalation, remove to fresh air; if not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Call a physician.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get prompt medical attention. Wash clothing before re-use.

If swallowed, remove contents with stomach pump, consult physician. **DO NOT INDUCE VOMITING.**



E. F. HOUGHTON & CO./303 W. LEHIGH AVENUE/PHILADELPHIA, PA. 19133

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PRINTED IN U.S.A.



April 21, 1977

Douglass Aircraft Company
3855 Lakewood Blvd.
Long Beach, Ca. 90846

Attention: Mr. M. J. Veneroso
Materials Handling &
Packaging Engineering

Gentlemen:

Your letter of March 30, 1977, to our Santa Ana plant has been forwarded to the writer with the request to furnish you with the information you desire.

Two of these products, Hocut 237 and Cosmoline 1062 are not regulated. We classify them as the following for shipping:

342	—	Hocut 237	-	Metal Cutting Compound
672	—	Cosmoline 1062	-	Petroleum Lubricating Oil NOI or Grease

Lubricant 949 is not our product.

I have listed below the proper shipping classification for the other products.

		<u>Proper Shipping Name</u>	<u>Hazard</u>
1221	—	Cosmoline 1091	Combustible Liquid
665	—	Cosmoline 1102	Combustible Liquid
673	—	Cosmoline 1104	Combustible Liquid

For Air - Article No. 1939
Flash Point - 105°F for all three
Pensky Martin Closed Cup

DPM 950-8
Perliten 45 - Cyanide or Cyanide Mixtures Dry Poison B

For Air - Article No. 544
Requires Poison Label

I have also enclosed our standard Material Safety Data Sheets for all of these products.

If you have any further questions, please feel free to contact the writer.

Sincerely,

E. F. Houghton & Company

Frank J. Roth

Frank J. Roth
Product Safety Manager

FJR/atd
Attachments